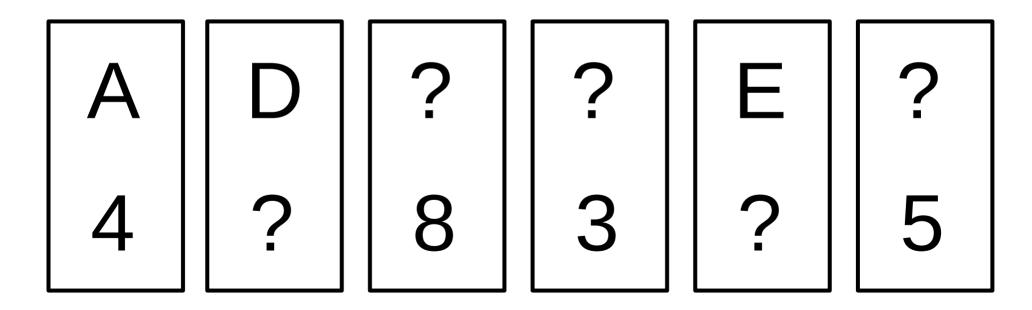
Each card below contains a letter-number pair.

Rule: Any vowel card will also have an even number.

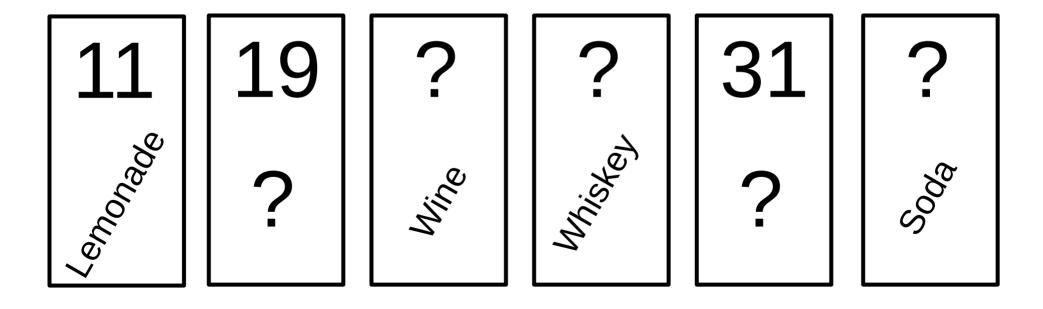
How many "?"s must be revealed to verify this rule?



Each card below contains an age-beverage pair.

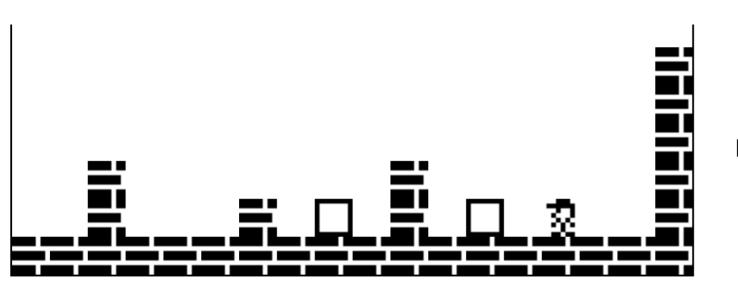
Rule: Only ages >= 21 can drink alcohol.

How many "?"s must be revealed to verify this rule?



* Thinking abstractly and recognizing similarities between different problems can make difficult questions easier – this is an essential part of physics!

* Be careful about jumping to conclusions. The rule vowel → even does *not* imply consonant → odd.



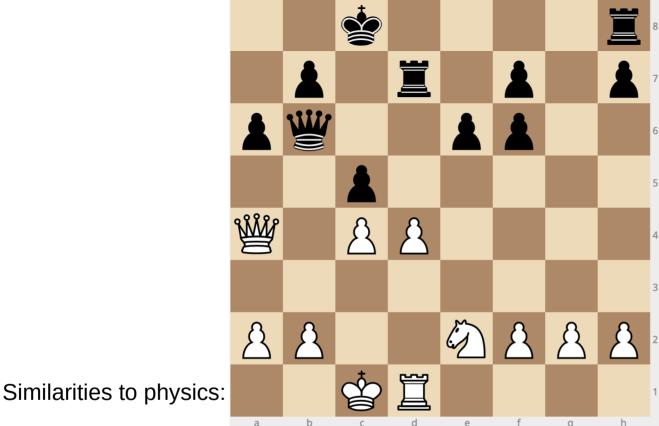
Blockdude

http://azich.org/blockdude/

In-class (solo) activity: complete levels 1-3

Similarities to physics:

- * Learning the rules of the universe requires experimentation and observation (and sometimes luck)
- * Incomplete knowledge of the rules can prevent success
- * Merely knowing the rules usually isn't sufficient for solving a problem critical thinking and problem solving skills are also necessary
- * Solving a difficult problem may require starting from scratch multiple times
- * Planning ahead can make you life much easier



In-class (group) activity: White to move. Find the best move.

(2k4r/1p1r1p1p/pg2pp2/2p5/O1PP4/8/PP2NPPP/2KR4 w KOkg -)

- * Learning the rules of the universe requires experimentation and observation (and sometimes luck)
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